

METHOD AND SYSTEM FOR NETWORK PROCESSOR SCHEDULING OUTPUTS BASED ON MULTIPLE CALENDARS

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Abstract of the Disclosure

A system and method of moving information units from a network processor
10 toward a data transmission network in a prioritized sequence which accommodates
several different levels of service. The present invention includes a method and system
for scheduling the egress of processed information units (or frames) from a network
processing unit according to stored priorities associated with the various sources of the
information units. The priorities in the preferred embodiment include a low latency
15 service, a minimum bandwidth, a weighted fair queueing and a system for preventing a
user from continuing to exceed his service levels over an extended period. The present
invention includes a plurality of calendars with different service rates to allow a user to
select the service rate which he desires. If a customer has chosen a high bandwidth for
service, the customer will be included in a calendar which is serviced more often than if
20 the customer has chosen a lower bandwidth.